



## RUST PENETRATING EPOXY SEALER MSP-96-07C

**1.0 Description.** This specification covers a two component epoxy amido-amine primer/sealer that is mixed prior to use.

**1.1** The coating shall be a two-package system with a mixing ratio of 1:1 and shall not require the use of a thinner.

**1.2** The sealer is available in two grades, a winter grade suitable for application at ambient temperatures between 50 F (10 C) and 89.6 F (32 C), and a summer grade suitable for application at ambient temperatures between 69.8 F (21 C) and 109.4 F (43 C).

**1.3** The coating shall be lead free and shall meet current VOC (Volatile Organic Content) restrictions.

**1.4** The coating shall be suitable for application at 1 to 2 mils (25 to 50  $\mu$ m) dry film thickness over marginally prepared steel and most generic types of aged coatings.

## **2.0 Reference Standards.**

### **2.1 American Society For Testing And Materials (ASTM).**

#### **2.1.1 Test Methods for Properties:**

D1475	Density of Paint, varnish, Lacquer and Related Products
D3960	Volatile Organic Content (VOC) of Paints
B117	Salt Fog Test

## **3.0 Inspection.**

**3.1** All material supplied under this specification shall be subject to timely inspection by the purchaser or his authorized representative. The purchaser shall have the right to reject any materials supplied which are found to be defective under this specification.

**3.2** Samples of any or all ingredients used in the manufacture of this paint may be requested by the purchaser and shall be supplied upon request, along with the supplier's name and identification for the material.

## **4.0 Properties.**

**4.1** All materials submitted under this specification shall conform to the compositional analysis shown.

**Component Properties**

	<b>Part A</b>	<b>Part B</b>	<b>Mixed</b>
% Solids, by weight (mass), theoretical minimum	98.00	95.00	96.00
% Solids, by volume, theoretical minimum	100.00	93.00	96.00
Weight per Gallon, lbs.	9.6±3%	8.2±3%	8.9±4%
(Mass per Liter, Kg)	(1.15±3%)	(0.98±3%)	(1.07±4%)
Vehicle (generic type)	Epoxy	Amido-amine	---
Volatile Organic Content	---	---	3.5 (420)
Lbs./gal.(g/L), maximum			
Salt Spray Resistance,			
1,500 hours (panel coated with penetrating sealer, midcoat primer, and 4 mil (100 µm) dry film thickness of finish coat, over SSP-SP-5 blasted cold rolled steel: 1 to 2 mil (25 to 50 µm) profile:	No more than 1 percent rust, undercutting, blistering or peeling.		

**4.2** Any sealer based on the specified ingredients shall be uniform, stable in storage and free from grit and coarse particles.

**4.3 Application Conditions.**

**4.3.1** The winter grade of coating shall be capable of being applied when the material is at a temperature between 60.8 F (16 C) and 80.6 F (27 C). The summer grade of coating shall be capable of being applied when the material is at a temperature between 60.8 F (16 C) and 89.6 F (32 C).

**4.3.2** The winter grade of coating shall be capable of being applied when the surface temperature is between 60.8 F (16 C) and 100.4 F (38 C). The summer grade of coating shall be capable of being applied when the surface temperature is between 69.8 F (21 C) and 129.2 F (54 C).

**4.3.3** The winter grade of coating shall be capable of being applied when the ambient temperature is between 50 F (10 C) and 89.6 F (32 C). The summer grade of coating shall be capable of being applied when the ambient air temperature is between 69.8 F (21 C) and 109.4 F (43 C).

**4.3.4** The coating shall be capable of being applied at relative humidities of up to 90 percent.

**4.4** The shelf life of the coating shall be a minimum of twenty four months when stored at 75.2 F (24 C).

**4.5** The coating shall have a theoretical coverage rate of 786 square feet (19.3 m<sup>2</sup>) per mixed gallon (liter) at 2 mils (50 µm) dry film thickness.

**4.6** The coating shall be applied at 1 to 2 mils (25 to 50 µm) dry film thickness over properly cleaned surfaces prepared according to SSPC SP 2, or others as recommended by the coating manufacturer.

**4.7** The coating shall be capable of being applied by roller or brush provided manufacturer's recommendations are followed. Spray application is not recommended without contacting the manufacturer for proper procedures.

**5.0 Labeling.** Each container shall be legibly marked with the following information:

Name: Rust Penetrating Epoxy Sealer  
Grade (Winter/Summer):  
Specification:  
Lot Number:  
Date of Manufacture:  
Quantity of Paint in Container:  
Information and Warnings as may be required by Federal and State Laws  
Manufacturer's Name and Address

**6.0 Inspection.**

**6.1** All material supplied under this specification shall be subject to timely inspection by the department or authorized representative. The department shall have the right to reject any materials supplied which are found not to comply with the requirements of this specification.

**6.2** Samples of any or all ingredients used in the manufacture of this paint may be requested by the department and shall be supplied upon request, along with the supplier's name and identification for the material.

**7.0 Acceptance.** Acceptance of Rust Penetrating Epoxy Sealer will be based on tests performed by the engineer or authorized representative.